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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/671,078		09/25/2003	Robert Parlee	parlee01.005	5824
25247	7590	04/29/2005	EXAMINER		NER
GORDON	E NELSO	ON	BECK, DAVID THOMAS		
PATENT A	TTORNE	Y, PC		·	
57 CENTRAL ST				ART UNIT	PAPER NUMBER
PO BOX 782				1732	
ROWLEY,	MA 019	69	DATE MAILED: 04/29/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summans	10/671,078	PARLEE, ROBERT					
Office Action Summary	Examiner	Art Unit					
The MAIL INC DATE of the	David T. Beck	1732					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on 25 Se	eptember 2003.						
	action is non-final.						
,—) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-23</u> is/are pending in the application.							
	4a) Of the above claim(s) <u>1-16 and 18</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) <u>17 and 19-23</u> is/are rejected.	_						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r						
10)⊠ The drawing(s) filed on <u>25 September 2003</u> is/a		ted to by the Evaminer					
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the correcti							
11) The oath or declaration is objected to by the Ex							
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreign	priority under 35 H.S.C. & 119(a)	h-(d) or (f)					
a) ☐ All b) ☐ Some * c) ☐ None of:	priority ariable 55 5.5.5. § 115(a)	(d) 01 (1).					
2. Certified copies of the priority documents		on No					
3. Copies of the certified copies of the prior							
application from the International Bureau		o in the realistic stage					
* See the attached detailed Office action for a list of		d.					
Attachment(e)							
Attachment(s) 1) Notice of References Cited (PTO-892)	A) Diplomiter Comme	(DTO 442)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) LI Interview Summary Paper No(s)/Mail Da						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9/25/03.		atent Application (PTO-152)					

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DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of group III and species B in the reply filed on 10/18/2004 is acknowledged. The traversal is on the ground(s) that the product cannot be made by a process that does not include curing in a mold. This argument is found to be persuasive.

However, the restriction is maintained as proper between groups II and III because the inventions are distinct, each from the other because of the following reasons:

Inventions III and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the process as claimed can be used to make other and materially different products which include carbon tubes and require joints or connectors, such as airplanes, hang gliders, go-carts, golf clubs or fishing poles. Therefore, the requirement is still deemed proper.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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3. Claims 17 and 19-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Trimble (4,986,949).

With regard to claim 17, Trimble teaches a method of making lugs for joints in a bicycle frame made of carbon fiber tubes (abstract), the method comprising the steps of: making a lay-up of at least carbon fibers and a matrix material around the joint (column 17, lines 19-33), applying a mold to the tubes and laid-up fibers and matrix material (column 17, line 50), and curing the lug in the mold, the cure including expansion of an element enclosed by the mold (column 17, lines 53-59).

With regard to claim 19, Trimble teaches the step of making the lay-up includes the step of including a layer of expanding foam in the lay-up; and in the step of curing the lug in the mold, the cure includes expansion of the foam (column 20, lines 3-7).

With regard to claim 20, Trimble teaches the step of making a lay-up includes the steps of: wrapping each tube in the joint with a first carbon fiber fabric that is impregnated with the matrix material, the ends of the fabric extending beyond the tube (column 17, lines 19-43); wrapping the ends of the carbon fiber fabric that is wrapped around a given tube around the tube the given tube joins to (column 17, lines 19-43); wrapping the entire joint in a second carbon fiber fabric whose fibers have an orientation different from that of the fibers in the first carbon fiber fabric (column 18, lines 10-15).

With regard to claim 21, Trimble teaches the step of making a lay-up further includes the step of: including a layer of expanding foam in the lay-up (column 7, lines 33-52, a core is the innermost part of a lay-up).

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With regard to claim 22, Trimble teaches the step of including an expandable bladder is included before the step of wrapping the entire joint in a second carbon fiber fabric (column 19, lines 38-50). Trimble also teaches that a layer of expandable foam can replace some or all of the bladders (column 10, lines 21-23). Therefore, Trimble teaches that the step of including a layer of expanding foam is performed before the step of wrapping the entire joint in a second carbon fiber fabric.

With regard to claim 23, Trimble teaches the step of wrapping the entire joint is done such that all seams in the second carbon fiber fabric are at the top and bottom of the tubes and the second carbon fiber fabric is overlapped at the seams (figure 2a, number 95; figure 2b, number 95).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David T. Beck whose telephone number is 571-272-2942. The examiner can normally be reached on Monday - Friday, 8AM - 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Colaianni can be reached on 517-272-1196. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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DTB April 26, 2005

DIR

MICHAEL P. COLAIANNI
SUPERVISORY PATENT EXAMINER